

VIVOHOME®

INSTRUCTION MANUAL

WATER PUMP

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# WATER PUMP INSTRUCTION MANUAL



封底

封面



Figure-c



Figure-d

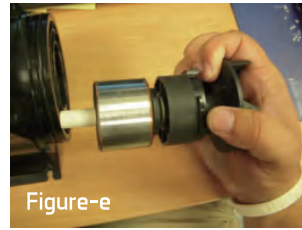


Figure-e

**INSTALLING IMPELLER ASSEMBLY AND FRONT HOUSING:**

Before reinstalling the impeller assembly it is recommended to use Silicon lubricant on the ceramic shaft, metallic rotor of the impeller assembly and the o-ring on the pump body. After this is complete, reinstall all the components back into the pump by sliding the impeller assembly back into the motor housing.

Using a pair of needle-nose pliers, very gently grip the shaft and one of the tabs and at the same time and turn clockwise while gently pushing on the tab to lock the impeller assembly. When you hear a klik sound it means the impeller is locked. Use only minimal force while doing this to avoid damaging the tabs on the pump or the impeller assembly.



O-ring Ceramic Shaft

Figure-f  
Metallic Rotor

Reinstalling the Front Housing by sliding it over the impeller chamber and rotating it clockwise until it locks at the desired position.

**LIMITED WARRANTY**

PG pumps are warranted to the user against defective material and workmanship under normal use, for a period of 1 year from the date of purchase by the original purchaser. Replacement liability in all events is limited to the replacing or repairing at sole discretion of any part or parts, which are defective in material or workmanship. Proof of purchase is required on all claims in the form of invoice copy, sales ticket, etc.

**APPLICATION:** Warranty covers only properly installed and maintained units. Warranty is limited to applications pumping fresh water at temperatures of 32°-86°F (0°- 30°C), with a pH range of 5 to9. Aquatics must approve other liquid applications and extreme temperature uses in advance in writing.

**INSTALLATION and REMOVAL CHARGES:** Warranty does not cover any costs associated with the installation or removal of products subject to warranty claims.

**DISPOSITION:** We will make a good-faith effort for prompt disposition regarding any item in warranty, which proves to be defective. If products were damaged in transit, please file a claim with the carrier.

**DISCLAIMER:** We will not be liable for any labor cost of removing or replacing component parts. This shall be the responsibility of the original purchaser, as will be the shipping charge to facility. Any oral statements about the product made by the seller, the manufacturer, the representatives or any other parties, do not constitute warranties, should not be relied upon by the user, and are not part of the contract for sale. Seller's and manufacturer's only obligation and buyer's and user's only remedy, shall be for the manufacturer to either replace and repair at the manufacturer's sole discretion the Product as described above. Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss), arising from any cause whatsoever, no matter whether based upon warranty, contract, negligence or other misuse, and the buyer and user agree that no other remedy shall be available to them. Damage or failure of any part of a unit covered by this warranty, which results from causes directly, or indirectly connected with the installation, operation, environment, use or willful abuse, including without limitations, improper repackaging and damage incurred in shipping is not covered by this warranty. Unless state law provides otherwise, the manufacturer will only be responsible for repair or replacement of any of its products or parts that are found to be defective, and will not bear any cost of any incidental or consequential damages arising out of the occurrence of such defect.

Before using, the buyer and user shall determine the suitability of the product for the intended use, and assumes all risk and liability whatsoever in connection herewith. The warranty and remedy described in this limited warranty is an EXCLUSIVE warranty and remedy. IN LIEU of any other warranty or remedy, expressed or implied, which other warranties and remedies are hereby expressly EXCLUDED, including but not limited to any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This Warranty gives buyer and user specific legal rights, and buyer and user may also have other rights that vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

1. Warranty period starts from date of purchase and must be validated with copy of original purchase receipt.
2. Warranty requests by phone will not be honored.
3. Warranty items returned without copy of original purchase receipt will not be honored.
4. Products purchased from eBay, craigslist, etc cannot be honored for warranty unless returned through original purchaser with proof of purchase.
5. If you have any questions or concerns about your new products, please contact us through AmazonMessage or via email at support@vivosun.com. We will contact you within 3 business days to help solve your inquiry.

- 3 year warranty from date of purchase on Quiet One Pump Motors Only.
- 60 day warranty from date of purchase on Shafts and Impellers for All Types of Pumps.
- 60 day warranty from date of purchase on all Ultraviolet Bulbs.
- 60 day warranty from date of purchase on all Test Strips.
- 1 year warranty from date of purchase on ALL Other Products including PG Pumps, LED Lights, Heaters.

**Pump Maintenance:**

This pump design features a water lubricated ceramic bearing and shaft for long lasting service. However, the rotor assembly is susceptible to failure if sand or extra fine grit is being pumped.

- CAUTION: Always disconnect the pump when performing any maintenance or handling.
- Check the circuit breaker and try another(GFCI) outlet to ensure the pump is getting electrical power.
- Check the pump discharge, impeller and tubing for obstructions.
- Check the inlet screen to ensure it is not clogged.
- After removing the volute, rotate the impeller by hand to insure that it can spin freely.

**PONDS FOUNTAINS WATERFALLS**

PG pump instructions: High performance energy-efficient pumps designed for use in Ponds, Fountains, Waterfalls, Hydroponic systems, Irrigation systems and water features. For use in either wet or dry installations and features wet rotor/wet bearing technology for cooler running, Pre-filter screen handles large particles for less maintenance. Multiple size insert fitting and suction cups included. Designed for fresh water use only.

**PG 1600-S**

Watts: 100, Amps: 0.8  
Voltage: 120V, 60Hz  
Hose Power: 0.12HP  
Inlet/Outlet: 1"  
Flexible Tube: 3/4" or 1" ID

FLOW RATE (gph)	HEAD (ft)
1600	0.0
1506	0.7
1189	3.3
978	4.9
740	6.6
542	8.2
370	9.8
251	11.5
132	13.1
0	15

**PG 2700-S**

Watts: 120, Amps: 1.1  
Voltage: 120V, 60Hz  
Hose Power: 0.16HP  
Inlet/Outlet: 1 1/4"  
Flexible Tube: 1 1/4" or 1" ID

FLOW RATE (gph)	HEAD (ft)
2700	0.0
2325	1.6
1982	3.3
1638	4.9
1295	6.6
978	8.2
700	9.8
462	11.5
264	13.1
0	15

**PG 4500-S**

Watts: 220, Amps: 1.8  
Voltage: 120V, 60Hz  
Hose Power: 0.30HP  
Inlet/Outlet: 1 1/2"  
Flexible Tube: 1 1/2" or 1 1/4" ID

FLOW RATE (gph)	HEAD (ft)
4500	0.0
4227	1.6
3831	3.3
3329	4.9
2814	6.6
2259	8.2
1783	9.8
1347	11.5
951	13.1
608	14.8
375	16.4
0	19

**PG 5300-S**

Watts: 310, Amps: 2.7  
Voltage: 120V, 60Hz  
Hose Power: 0.42HP  
Inlet/Outlet: 1 1/2"  
Flexible Tube: 1 1/2" or 1 1/4" ID

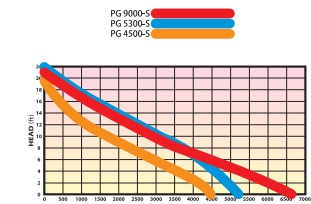
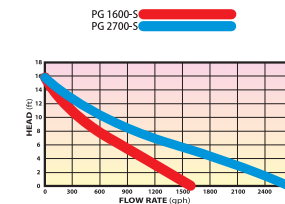
FLOW RATE (gph)	HEAD (ft)
5300	0.0
5020	1.6
4756	3.3
4412	4.9
4042	6.6
3620	8.2
3197	9.8
2721	11.5
2219	13.1
1717	14.8
1189	16.4
793	18
476	19.7
238	21.3
0	24

**ALL Pro Series**

**PG 9000-S**

Watts: 620, Amps: 5.1  
Voltage: 120V, 60Hz  
Hose Power: 0.45HP  
Inlet/Outlet: 2"  
Flexible Tube: 2" ID

FLOW RATE (gph)	HEAD (ft)
9000	0.0
7662	4.6
7133	6.6
6077	9.8
4888	13.1
3699	16.4
2563	19.7
1480	23
0	27.6



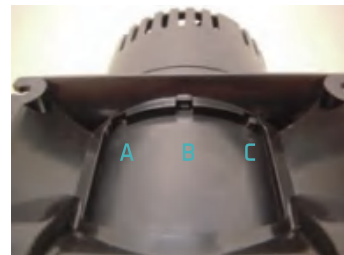
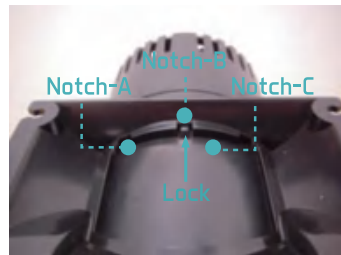
### SELECT OUTLET POSITION:

Place the pump flat on its base. To get Position2, Position3, Position4 as shown below the body of the pump needs to rotate within the handle/stand and lock into Notches A, B or C respectively located in the base of the handle/stand. To get Position1 rotate the pump into Notch A while the volute is removed and manually rotated counter clockwise into the desired position. To get Position5 rotate the pump into Notch C while the volute is removed and manually rotated clockwise into the desired position.



Position1      Position2      Position3      Position4      Position5

### Label Notch-A, Notch-N, Notch-C



### Pump Maintenance:

This pump design features a water lubricated ceramic bearing and shaft for long lasting service. However, the rotor assembly is susceptible to failure if sand or extra fine grit is being pumped.

- Caution: always disconnect the pump when performing any maintenance or handling.
- Check the circuit breaker and try another (GFCI) outlet to ensure the pump is getting electrical power.
- Check the pump discharge, impeller and tubing for obstructions.
- Check the inlet screen to ensure it is not clogged
- After removing the volute, rotate the impeller by hand to insure that it can spin freely.

### CLEANING THE IMPELLER AND VOLUTE CHAMBER

To clean the volute chamber and impeller remove the volute by rotating it counter clockwise. This will expose the pump impeller. To clean the volute chamber impeller use a garden hose to spray out any debris.



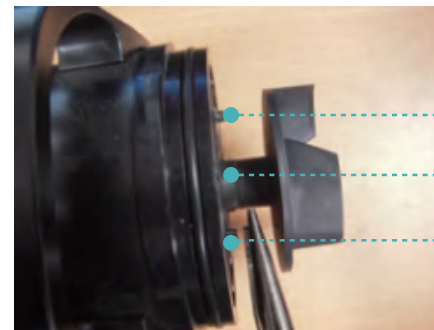
Figure - a



Figure - b

### CLEANING OR REPLACING THE IMPELLER:

To clean or replace the impeller assembly, first remove the front housing by rotating it counter clockwise (see Figure a-b) With the impeller exposed locate the three tabs.



Tab

Shaft

Tab

Using a pair of needle-nose pliers, very gently grip the shaft with the tip of the pliers while also locking in one of the tabs at the same time. Gently turn the shaft counter-clockwise while pushing on the tab to unlock the impeller assembly. Pull the assembly straight out to remove from motor housing. See fig-c,d and e. Use only minimal force while doing this to avoid damaging the tabs on the pump or the impeller assembly. Visually inspect the impeller assembly for any damage. The impeller assembly for PG Pumps is one assembly as shown in Figure-4.